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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,819	07/16/2003	Hiroyasu Murata	FUJI 20.513 1238 EXAMINER	
26304	7590 12/11/2006			
KATTEN MUCHIN ROSENMAN LLP			TRAN, KHANH C	
*	ON AVENUE ., NY 10022-2585		ART UNIT PAPER NUMBER	
1.2 W 101di, 1.1 10022 2000			2611	
			DATE MAILED: 12/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/620,819	MURATA ET AL.				
Office Action Summary	Examiner	Art Unit				
<u> </u>	Khanh Tran	2611				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ac	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timused apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status	·					
1)⊠ Responsive to communication(s) filed on 16 Ju	ılv 2003.					
	action is non-final.					
3) Since this application is in condition for allower		secution as to the	e merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.	4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,7,11 and 17</u> is/are rejected.						
	7)⊠ Claim(s) <u>2-6, 8-10, 12-16 and 18-20</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>16 July 2006</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1	ГО-152.			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior						
application from the International Bureau	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:	шин фриосион	•			

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DETAILED ACTION

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Drawings

1. Figures 1-5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 7, 11, 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Jones, IV et al. U.S. Patent 6,657,950 B1.

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Regarding claim 1, Jones, IV et al. teaches systems and methods for converting a baseband OFDM signal to an IF signal while minimizing lengthening of the impulse response duration experienced by the OFDM signal.

In column 8 lines 25-40, Jones, IV et al. teaches a method for transmitting OFDM signals comprising the steps of:

receiving an N-symbol frequency domain symbol burst;

zero-padding said N-symbol frequency domain symbol burst to form an M*N-symbol frequency domain burst;

and transforming said M*N-symbol frequency domain symbol burst into an M*N-symbol time domain burst.

Regarding claim 7, as further disclosed in column 5 lines 45-60, Jones, IV et al. teaches that the N-point frequency domain sequence input to IFFT processing block 402 is zero-padded to become a 2N point frequency domain sequence with N/2 zeroes being placed before and after the original N-point sequence. IFFT processing block 402 then performs a 2N point IFFT rather than an N point IFFT.

Regarding claim 11, claim is rejected on the same ground as for claim 1 because of similar scope.

Regarding claim 17, claim is rejected on the same ground as for claim 7 because of similar scope.

Allowable Subject Matter

3. Claims 2-6, 8-10, 12-16 and 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jones, IV et al. U.S. Patent 6,487,253 B1 discloses "OFDM Channel Estimation In The Presence Of Interference".

Dowling U.S. Patent 6,597,745 B1 discloses "Reduced Complexity Multi-carrier Precoder".

Raphaeli et al. U.S. Patent 6,614,864 B1 discloses "Apparatus For And Method Of Adaptive Synchronization In A Spread Spectrum Communications Receiver".

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Tran whose telephone number is 571-272-3007.

The examiner can normally be reached on Monday - Friday from 08:00 AM - 05:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCT

Khanh Tran

Primary Examiner

Shank con often 12/07/06